USB Home PhoneLine 1Mbps Network Adapter

User's Guide

M73-APO08-250

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REGULATORY STATEMENTS

Part15, Class B

This device complies with Part 15 of FCC rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interface, and

2. This device must accept any interface received, including interface that may cause undesired operation. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the distance between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

☝ ***Changes or modifications not expressly approved by party responsible for compliance could void the user the user authority to operate the equipment.***

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FCC Part 68 Registration

This equipment complies with Part 68 of the FCC Rules. On the bottom of this equipment is label that contains, among other information, the FCC registration Number and Ringer equipment Number (REN) for the equipment. If requested, this information must be given to the Telephone Company.

The REN is useful to determine the quantity of devices you may connect to your telephone line and still have all of those devices ring when your telephone number is called. In most, but not all areas, the sum of the REN's of all devices connected to one line should not exceed five (5.0). To be certain of the number of devices you're local telephone company to determine the maximum REN for you're calling area. If your telephone equipment cause harm to the telephone network, the Telephone Company may discontinue your service temporarily. If possible, they will notify you in advance. But if advance notice isn't practical, you will be informed of your right to file a complaint with the FCC.

Your telephone company may changes in its facilities, equipment, operations or procedures that could affect the proper functioning of your equipment. If they do, you will be notified in advance to given you and opportunity to maintain uninterrupted telephone service. If you experience trouble with this telephone equipment, please contact the following address and phone number for information on obtaining service or repairs. The telephone company may ask that your disconnect this equipment from the network until the problem has been corrected or until you are sure that the equipment is not malfunctioning. This equipment may not be used on coin service provide by the telephone company. Connection to party lines is subject to state tariffs.

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INTRODUCTIONS

The **USB Home PhoneLine 1Mbps Network Adapter** is fully compatible with the Universal Serial Bus (USB) functionality built in Windows 98. It enables the instant connectivity to multiple PCs over a home's existing telephone lines.

You can share network-enabled printers, transfer files between computers, play network games, and moreover - no switches, hubs, or even any additional cables is needed. The network runs on standard home-grade-telephone wires just like the ones you use everyday. Plus, it doesn't interfere with your normal phone use.

Features

- Connects to a network using your existing telephone line -- No additional hubs or network cables needed
- Working with any PC with a USB port
- Microsoft Windows 98/2000/Millennium supported
- 1Mbps transfer rate over telephone lines
- External USB network adapter with 1 RJ-11 modular telephone port
- USB cable included – true plug & play
- HomePNA specification 1.1 compliant
- Connects up to 25 devices together on your home phone network

About Home Phone Networking Technology

The USB Home PhoneLine 1Mbps Network Adapter utilizes a technology known as Frequency Division Multiplexing (FDM) which essentially divides the

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data travelling over the phone lines into separate frequencies - one for voice, one for high-bandwidth net access such as DSL, and one for the network data. These frequencies can coexist on the same telephone line without impacting one another.

The 1 Megabit-per-second (one million bits-per-second) data rate is 18 times that of the fastest analog modems available, which runs at 56Kbps. Even high-speed modem, xDSL, and ISDN connections will perform at full speed on a home network.

> *Note: Because of the limitations of standard telephone cables, Home Phone Networking devices require that your cabling does not exceed a total length of 500 feet for your entire network.*

System Requirements

- A Pentium® processor-based personal computer 166MMX or above.
- At least 16 MB of RAM.
- One USB port well installed and enabled.
- Microsoft Windows 98

Specifications

Network Standard

- HomePNA specification 1.1
- Standard phone wiring

Supported Operating Systems

- Windows 98
- Windows 2000
- Windows Millennium

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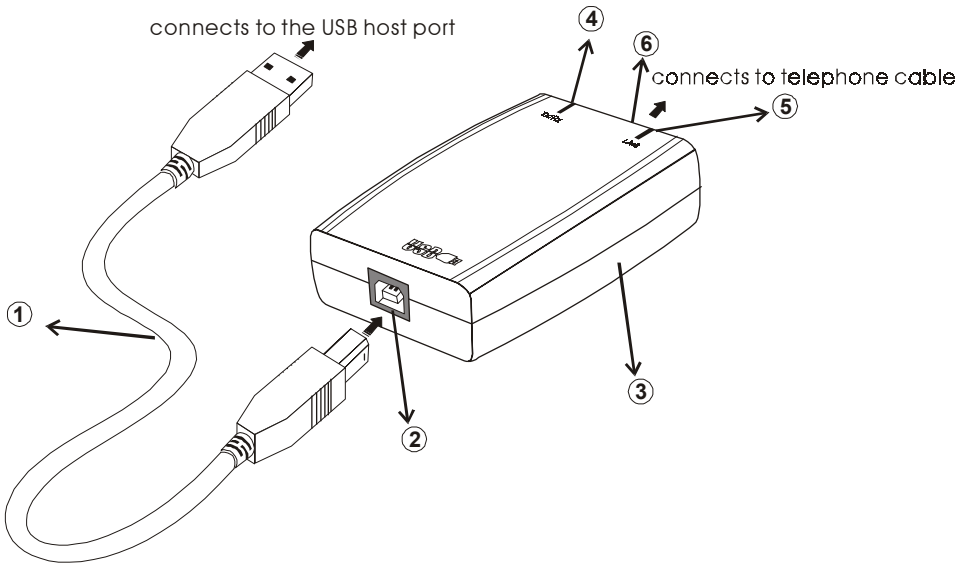
Parts Names and Functions

① **USB Connection Cable:** connects the USB host port with the USB Home PhoneLine 1Mbps Network Adapter.



② **USB-B Port**: USB device port.

③ **USB Home PhoneLine 1Mbps Network Adapter**

④ **Rx/Tx** LED indicator: blinks amber when the USB Home PhoneLine 1Mbps Network Adapter is transmitting/receiving data

⑤ **Link** LED indicator: glows green when the USB Home PhoneLine 1Mbps Network Adapter is well connected.

⑥ **RJ-11 port**: connects the USB Home PhoneLine Network Adapter with telephone wire.

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HARDWARE INSTALLATION

Precaution

Before the installation, make sure the USB port exists in your computer and is enabled. To check this, go to ***My Computer→Control Panel→System****. Open the* ***Device Manager*** *tab. If the* ***Universal Serial Bus controller*** *device is found, it means your USB port is installed and enabled. If not, either no USB port is installed or the USB bios is not properly enabled. In this case, consult your computer dealer for USB support.*

Getting Hooked Up

1. Locate the USB host port of your system. Align the USB connector toward the USB host port, push evenly and steadily until it is seated.

2. Connect another end of the USB connection cable to the device port of your USB Home PhoneLine 1Mbps Network Adapter (i.e. USB B

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Port, refer to the section titled “Parts Names and Functions” for details) until it clicks.

3. Windows 98 will automatically detect the new hardware device. Perform the following procedures to install the device driver.

Connecting Telephone Cabling

1. Attach one end of the telephone wire to the USB Home PhoneLine 1Mbps Network Adapter’s RJ-11 telephone port.
2. Connect the other end of the wire into a telephone jack in your wall.

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SOFTWARE INSTALLATION (WINDOWS 98)

1. Once the USB Home PhoneLine 1M Network Adapter was connected to your computer, Windows 98 will automatically detect the new hardware device as shown below. Click **Next**.

Add New Hardware Wizard
This wizard searches for new drivers for:
USB Home LAN 1Mbps
A device driver is a software program that makes a hardware device work.
< Back
Next >
Cancel

2. Insert the device driver diskette into your floppy drive. When Windows prompts you **What do you want Windows to do?** Select **Search for the best driver for your device. (Recommended)**. Click **Next**.

3. Follow the on-screen instruction to proceed.

4. The installation program will proceed automatically.

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Add New Hardware Wizard
Windows driver file search for the device:
USB Home PhoneLine 1Mbps Network Adapter
Windows is now ready to install the best driver for this device. Click Back to select a different driver, or click Next to continue.
Location of driver:
A:\USBH1.INF
< Back
Next >
Cancel

5. Windows will finish copying all the necessary files to your system. When the following window appears, click **Finish**.

Add New Hardware Wizard
USB Home PhoneLine 1Mbps Network Adapter
Windows has finished installing the software that your new hardware device requires.
< Back
Finish
Cancel

6. When asked if you want to restart your computer, click **No**

7. Once you are back at the Windows 98 desktop, click the **Start** button. Click **Settings**, then **Control Panel**.

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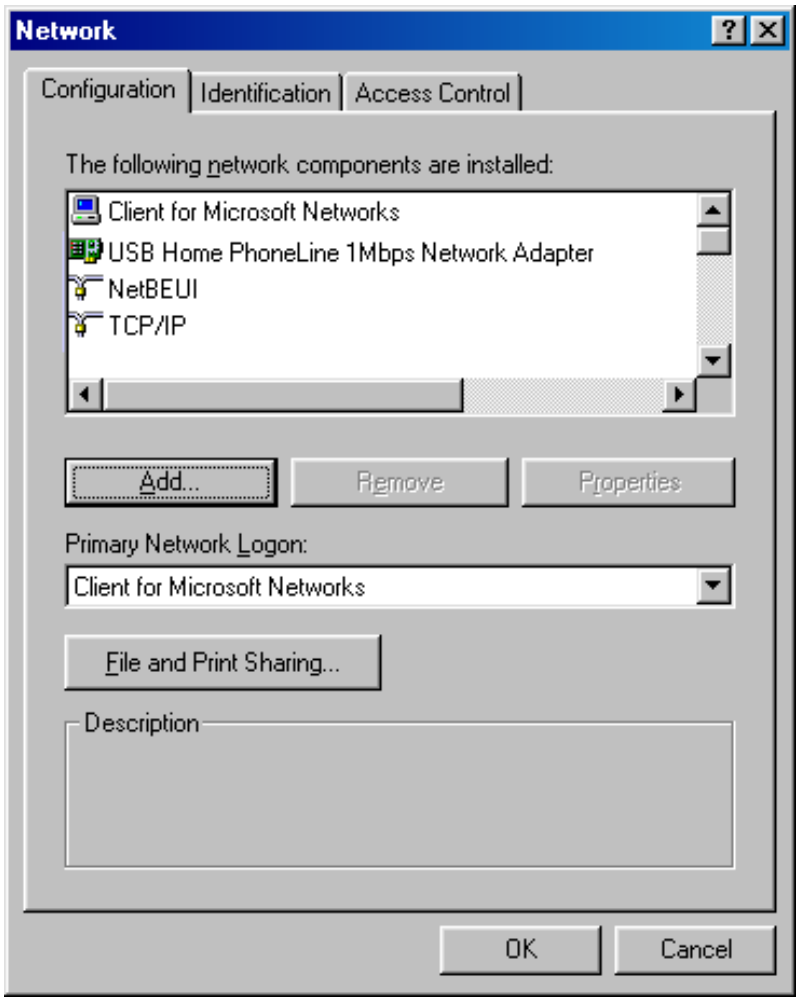
8. Double-click the **Network** icon. The Network window will appear. Click the **Configuration** tab.

9. Make sure that the following network components are installed:

   Client for Microsoft Networks
   USB Home PhoneLine 1Mbps Network Adapter
   NetBEUI
   TCP/IP



10. If you are missing required components, you'll need to install them manually. If you need to install the TCP/IP Protocol, contact your system administrator or refer to the Windows 98 documentation.

11. In the **Primary Network Logon** box, select **Client for Microsoft Networks**.

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12. Click the **Identification** tab. Enter the required information appropriately.

13. Click the **Access Control** tab. Make sure that **Shared-level access control** is selected.

Network
Configuration
Identification
Access Control
Control access to shared resources using:
Share-level access control
Enables you to supply a password for each shared resource.
User-level access control
Enables you to specify users and groups who have access to each shared resource.
Obtain list of users and groups from:
OK
Cancel

14. When finished, remember to restart your computer to activate the new device.

Once the computer has restarted and Windows 98 has booted up, the **Link** light will be on. And a **Logon** window will appear requiring you to enter a username and password. Make up a username and password, enter them, and click **OK**.

When you are at the Windows 98 desktop, double-click the **Network Neighborhood** icon. You should see the name of the network, and/or the names of the other PCs on the network.

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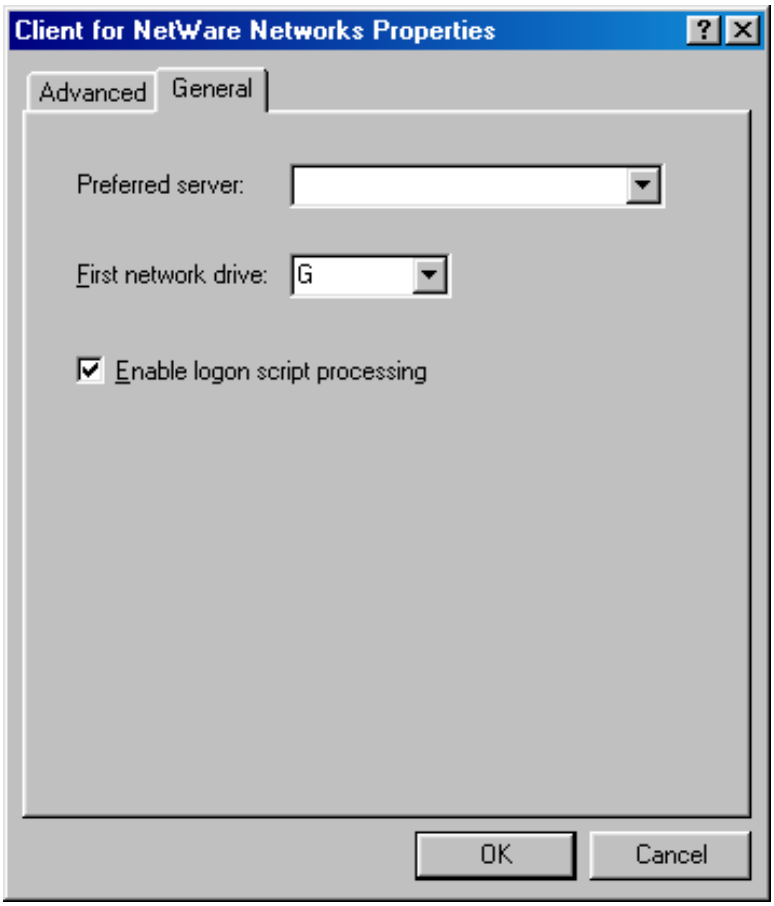
Client Setup

If you are not using Windows 98 with an NT or NetWare file server, skip the next two paragraphs. Perform the following procedures to prepare your computer to be used with any file servers that may be on the network.

Connecting to a NetWare File Server

1. Click **My Computer**, **Control Panel**, and **Network**.
2. Change the **Network Logon** to **Client for NetWare Network.**
3. Double-click the **Client for NetWare networks**. Put your server's name in the Preferred Server box. Click in the **Enable Logon Script Processing** box.



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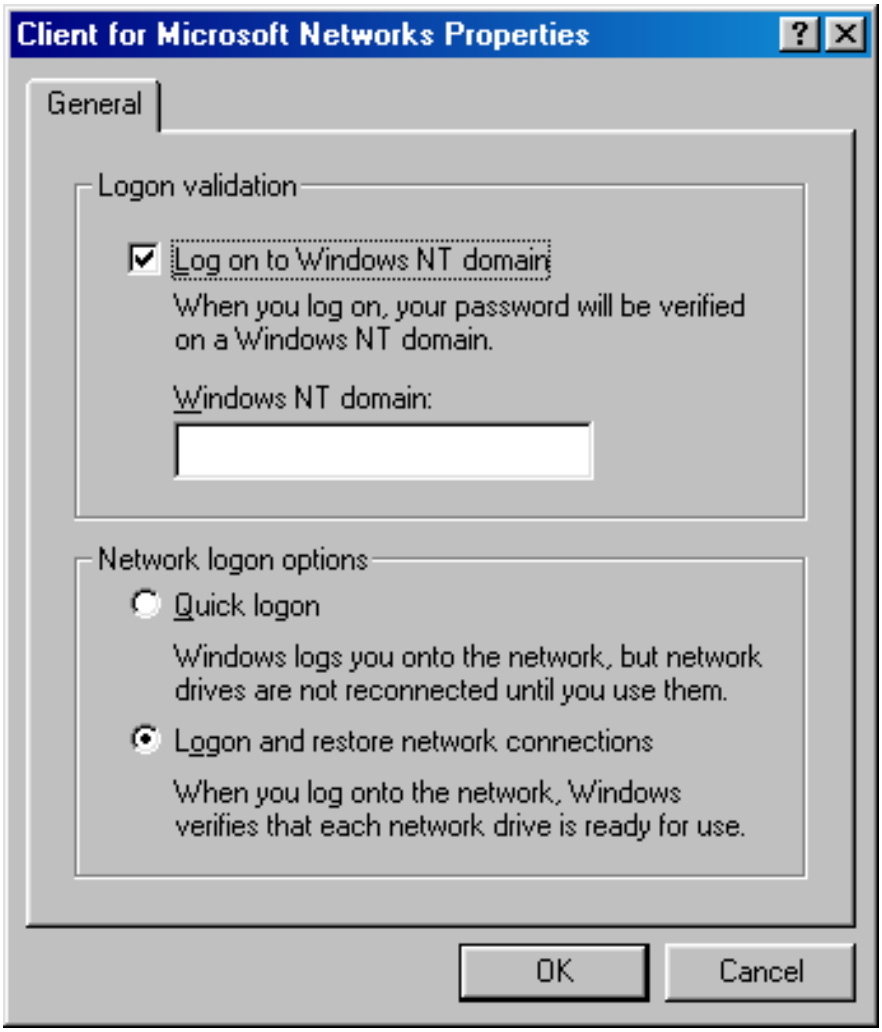
4. Click **OK** and restart your PC.

Connecting to a Windows NT Domain

1. Click **My Computer**, **Control Panel**, and **Network**. Change the **Primary Network Logon** to **Client for Microsoft Network**.
2. Double-click the **Client for Microsoft networks**.
3. Select the **Log on to Windows NT domain** box. Put your NT domain name in the Windows NT domain area.
4. Click **OK** and restart your PC.


Client for Microsoft Networks Properties
General
Logon validation
Log on to Windows NT domain
When you log on, your password will be verified on a Windows NT domain.
Windows NT domain:
Network logon options
Quick logon
Windows logs you onto the network, but network drives are not reconnected until you use them.
Logon and restore network connections
When you log onto the network, Windows verifies that each network drive is ready for use.
OK
Cancel

5. When finished, restart your computer.

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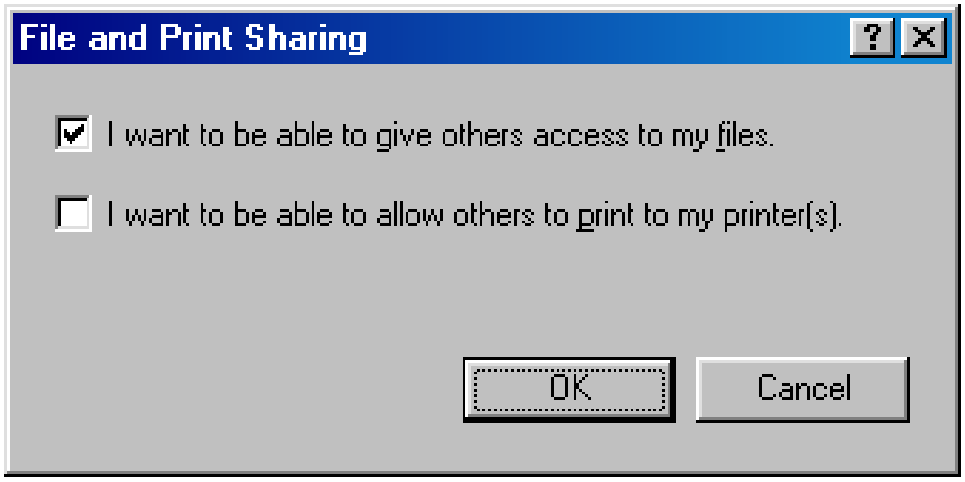
Using File and Printer Sharing

1. Click **Start**, **Settings**, **Control Panel**. Double-click **Network**.

2. Click the **Configuration** tab, followed by the **File and Printer Sharing** button. **The File and Printer Sharing** window will appear.


File and Print Sharing
I want to be able to give others access to my files.
I want to be able to allow others to print to my printer(s).
OK
Cancel

- If you'd like others to be able to access the files on your PCs hard drive, select I want to be able to give others access to my files.
- If you'd like to share your printer with other users on the network, select I want to be able to allow others to print to my printer.

3. Click the **OK** button. File and Printer Sharing for Microsoft Networks should now appear in the list of installed components. Click **OK**. When asked to restart your PC, choose to do so.

Enabling File Sharing

1. Double-click **My Computer**. A window of available disk drives will appear.

2. Right-click once the drive or folder that you want to make available to other users.

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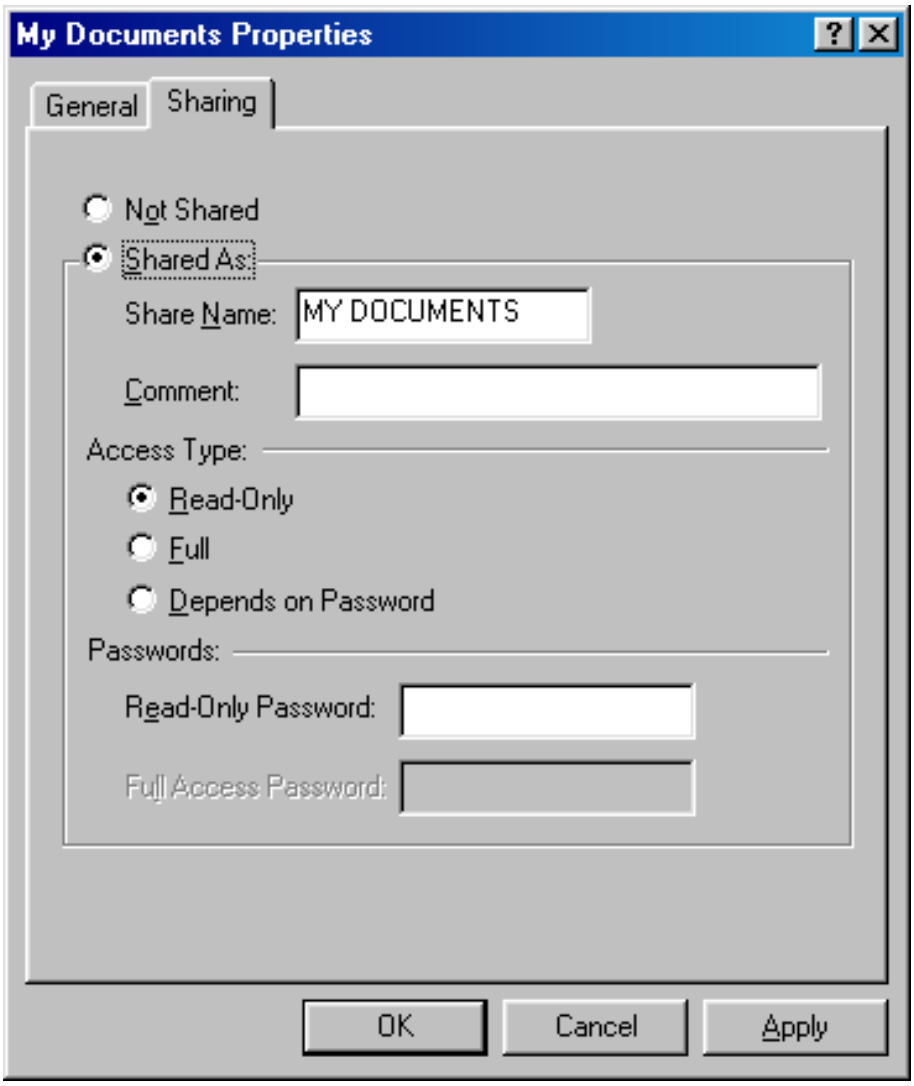
3. Click **Sharing**, followed by the Sharing tab. Click **Share As**. In the Share Name box, enter a name for the drive or folder you are sharing.



Next, decide on the type of access that you want to give other users.

- Read-Only access lets other users view the files on your PC.
- Full access lets users create, change, or delete files on your PC.
- Depends on Password lets users have Read-Only and/or Full access, depending on the password that you decide to give them.

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Use your mouse to select the type of file sharing access that you want other users to have. If you want to assign access password(s), type them into the Password box(es).

If you are sharing a cable modem or DSL broadband connection that you will be using to access the Internet, you should protect all of your shared drives and printers with private passwords.

When finished, click **Apply**, followed by **OK**.

Enabling Printers Sharing

Click **Start→Setting→ Printers**. A window of available printers will appear.

Right-click the printer that you want to share with other users. Click **Sharing**, followed by the Sharing tab. Click **Share As**. In the Share Name box, give a name to the printer you're about to share (Jack's HP4, for example). If you want to assign a password to the printer so only certain users can access it, type a password in the Password box. When you're done, click **Apply**, followed by **OK**. Your printer(s) are now shared.

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